



GLOBAL PARTNERS FOR LEAD-FREE SOLDERS

BALVER ZINN

ASIA NORTH AMERICA UNITED KINGDOM CONTINENTAL EUROPE
Nihon Superior FCT Assembly DKL Metals LTD Josef Jost GmbH & Co. KG

Physical and mechanical data of SN100CL in comparison to tin lead (*by FHG Berlin)

	SN100CL	SnPb37
melting point °C	227	183
Density g/cm ³	7,4	8,4
specific heat J/g	61,0	45,0
electrical resistance μΩm	13,0	14,5
surface tension mN/m*	542,45	449,02

Composition of alloys

Element	SN100CL %	SN100CLe %	SN100CLe+ %	critical concentration of impurities % *
Sn	Balance to 100%	Balance to 100%	Balance to 100%	
Cu	0,6 ± 0,1	0,2 ± 0,2	0,2 ± 0,2	< 0,4 > 1,2
Ni	0,05 ± 0,005	0,05 ± 0,005	0,15 ± 0,05	< 0,02 > 0,2
Ge	0,0055 ± 0,0005	0,0055 ± 0,0005	0,0055 ± 0,0005	na
Ag	max. 0,05	max. 0,05	max. 0,05	> 0,1
Al	max. 0,001	max. 0,001	max. 0,001	> 0,002
As	max. 0,05	max. 0,05	max. 0,03	> 0,3
Au	max. 0,05	max. 0,05	max. 0,05	0,5
Bi	max. 0,03	max. 0,03	max. 0,03	> 0,1
Cd	max. 0,002	max. 0,002	max. 0,002	> 0,002
Fe	max. 0,02	max. 0,02	max. 0,02	> 0,03
Pb	max. 0,05	max. 0,05	max. 0,05	> 0,1 RoHS
Sb	max. 0,05	max. 0,05	max. 0,05	> 0,05
Zn	max. 0,002	max. 0,002	max. 0,001	> 0,005

* critical impurities are not subject of international standards, they are only related to practical experience!

Packaging*

Delivery form	L In mm	B In mm	H In mm
Bars 1 kg	325	28	15
Pellets	12 x 25		

*Other delivery forms on request

Read the material safety data sheet before use.

The information in this data sheet is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Because Balver Zinn Josef Jost GmbH & Co. KG has no control over conditions of use,

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status: ML 07.03.06